

## CLAIMS

It is claimed:

1. A control capable of operating a plurality of models, said control;

including selection means to energize circuits that include output devices

5 on at least one model,

including sensing means to scan said circuits,

limiting its operation to options for which said sensing means determines  
said circuits have the correct impedance.

2. The control in accordance with claim 1 wherein at least one sensor of

10 said sensing means scans a plurality of said circuits.

3. The control in accordance with claim 2 wherein said selection means  
determines which of said circuits said sensor scans.

4. The control in accordance with claim 1 wherein said control is able to  
determine one or more of said circuits have an impedance that is incorrect all of

15 said models.

5. The control in accordance with claim 4 wherein at least one sensor of  
said sensing means scans a plurality of said circuits.

6. The control in accordance with claim 5 wherein said selection means  
determines which of said circuits said sensor scans.

20 7. A control capable of operating a plurality of models, said control;

including selection means to energize circuits that include output devices  
on at least one model,

including sensing means to scan said circuits,

limiting its operation to options for which said sensing means determines

25 the required output devices are present.

8. The control in accordance with claim 7 wherein at least one sensor of  
said sensing means scans a plurality of said circuits.

9. The control in accordance with claim 8 wherein said selection means  
determines which of said circuits said sensor scans.

10. The control in accordance with claim 7 wherein said control is able to determine one or more of said circuits have an impedance that is incorrect all of said models.

11. The control in accordance with claim 10 wherein at least one sensor of said sensing means scans a plurality of said circuits.

12. The control in accordance with claim 11 wherein said selection means determine which of said circuits said sensor scans.

13. A control capable of operating a plurality of models,

each model of said plurality using display output devices to inform the

10 operator which operator options have been selected,

    said control including selection means to energize circuits that include said display output devices,

    said control including sensing means to scan said circuits,

    said control limiting its operation to options for which said sensing means

15 determines said circuits have the correct impedance.

14. The control in accordance with claim 13 wherein at least one sensor of said sensing means scans a plurality of said circuits.

15. The control in accordance with claim 14 wherein said selection means determine which of said circuits said sensor scans.

20       16. The control in accordance with claim 13 wherein said sensor scans said plurality of said circuits during normal operation without being detectable by the operator.

25       17. The control in accordance with claim 13 wherein said control, in addition to said plurality of models, operates models using the position of switches to inform the operator which operator options have been selected.

18. The control in accordance with claim 17 wherein said control uses said sensing means to scan the contacts of said position switches.

19. The control in accordance with claim 18 wherein at least one sensor of said sensing means scans a plurality of said circuits.

20. The control in accordance with claim 19 wherein said selection means determines which of said circuits said sensor scans.